



SEQUENCE LISTING

#6

<110> Chernajovsky, Yuti
Dreja, Hanna Stina
Adams, Gillian

<120> Latent Fusion Protein

<130> 0623.1000000

<140> US 09/756,283

<141> 2001-01-09

<160> 100

<170> PatentIn version 3.0

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<223> MMP cleavage site including linker sequence

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29

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<223> Flexible linker

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Gly Gly Gly Gly Ser

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Pro Leu Gly Leu Trp Ala
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<223> Core of cleavage site

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Pro Leu Gly Leu
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Pro Leu Gly Ile
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Met	Pro	Pro	Ser	Gly	Leu	Arg	Leu	Leu	Pro	Leu	Leu	Leu	Pro	Leu	Leu	
1				5					10					15		

tgg	cta	ctg	gtg	ctg	acg	cct	ggc	ccg	ccg	gcc	gcg	gga	cta	tcc	acc	96
Trp	Leu	Leu	Val	Leu	Thr	Pro	Gly	Pro	Pro	Ala	Ala	Gly	Leu	Ser	Thr	
			20					25					30			

tgc	aag	act	atc	gac	atg	gag	ctg	gtg	aag	cgg	aag	cgc	atc	gag	gcc	144
Cys	Lys	Thr	Ile	Asp	Met	Glu	Leu	Val	Lys	Arg	Lys	Arg	Ile	Glu	Ala	
		35					40					45				

atc	cgc	ggc	cag	atc	ctg	tcc	aag	ctg	cgg	ctc	gcc	agc	ccc	ccg	agc	192
Ile	Arg	Gly	Gln	Ile	Leu	Ser	Lys	Leu	Arg	Leu	Ala	Ser	Pro	Pro	Ser	
		50				55					60					

cag	ggg	gag	gtg	ccg	ccc	ggc	ccg	ctg	ccc	gag	gcc	gtg	ctc	gcc	ctg	240
Gln	Gly	Glu	Val	Pro	Pro	Gly	Pro	Leu	Pro	Glu	Ala	Val	Leu	Ala	Leu	
65					70					75					80	

tac	aac	agc	acc	cgc	gac	cgg	gtg	gcc	ggg	gag	agt	gca	gaa	ccg	gag	288
Tyr	Asn	Ser	Thr	Arg	Asp	Arg	Val	Ala	Gly	Glu	Ser	Ala	Glu	Pro	Glu	
				85					90					95		

ccc	gag	cct	gag	gcc	gac	tac	tac	gcc	aag	gag	gtc	acc	cgc	gtg	cta	336
Pro	Glu	Pro	Glu	Ala	Asp	Tyr	Tyr	Ala	Lys	Glu	Val	Thr	Arg	Val	Leu	
			100					105					110			

atg	gtg	gaa	acc	cac	aac	gaa	atc	tat	gac	aag	ttc	aag	cag	agt	aca	384
Met	Val	Glu	Thr	His	Asn	Glu	Ile	Tyr	Asp	Lys	Phe	Lys	Gln	Ser	Thr	
		115					120					125				

cac	agc	ata	tat	atg	ttc	ttc	aac	aca	tca	gag	ctc	cga	gaa	gcg	gta	432
His	Ser	Ile	Tyr	Met	Phe	Phe	Asn	Thr	Ser	Glu	Leu	Arg	Glu	Ala	Val	
		130				135					140					

cct	gaa	ccc	gtg	ttg	ctc	tcc	cgg	gca	gag	ctg	cgt	ctg	ctg	agg	agg	480
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Pro 145	Glu	Pro	Val	Leu 150	Leu 150	Ser	Arg	Ala	Glu	Leu 155	Arg	Leu	Leu	Arg	Arg 160	
ctc	aag	tta	aaa	gtg	gag	cag	cac	gtg	gag	ctg	tac	cag	aaa	tac	agc	528
Leu	Lys	Leu	Lys	Val 165	Glu	Gln	His	Val 170	Glu	Leu	Tyr	Gln	Lys	Tyr 175	Ser	
aac	aat	tcc	tgg	cga	tac	ctc	agc	aac	cgg	ctg	ctg	gca	ccc	agc	gac	576
Asn	Asn	Ser	Trp	Arg 180	Tyr	Leu	Ser	Asn 185	Arg	Leu	Leu	Ala	Pro 190	Ser	Asp	
tcg	cca	gag	tgg	tta	tct	ttt	gat	gtc	acc	gga	gtt	gtg	cgg	cag	tgg	624
Ser	Pro	Glu	Trp	Leu	Ser	Phe	Asp 200	Val	Thr	Gly	Val	Val 205	Arg	Gln	Trp	
ttg	agc	cgt	gga	ggg	gaa	att	gag	ggc	ttt	cgc	ctt	agc	gcc	cac	tgc	672
Leu	Ser	Arg	Gly	Gly	Glu	Ile	Glu	Gly	Phe	Arg	Leu	Ser	Ala	His	Cys	
	210					215					220					
tcc	tgt	gac	agc	agg	gat	aac	aca	ctg	caa	gtg	gac	atc	aac	ggg	ttc	720
Ser	Cys	Asp	Ser	Arg	Asp 230	Asn	Thr	Leu	Gln	Val 235	Asp	Ile	Asn	Gly	Phe 240	
225																
act	acc	ggc	cgc	cga	ggt	gac	ctg	gcc	acc	att	cat	ggc	atg	aac	cgg	768
Thr	Thr	Gly	Arg	Arg 245	Gly	Asp	Leu	Ala	Thr 250	Ile	His	Gly	Met	Asn 255	Arg	
cct	ttc	ctg	ctt	ctc	atg	gcc	acc	ccg	ctg	gag	agg	gcc	cag	cat	ctg	816
Pro	Phe	Leu	Leu	Leu	Met	Ala	Thr	Pro 265	Leu	Glu	Arg	Ala	Gln	His	Leu	
			260										270			
caa	agc	gaa	ttc	ggg	gga	ggc	gga	tcc	ccg	ctc	ggg	ctt	tgg	gcg	gga	864
Gln	Ser	Glu	Phe	Gly	Gly	Gly	Gly 280	Ser	Pro	Leu	Gly	Leu	Trp	Ala	Gly	
		275										285				
ggg	ggc	tca	gcg	gcc	gca	atc	aac	tat	aag	cag	ctc	cag	ctc	caa	gaa	912
Gly	Gly	Ser	Ala	Ala	Ala	Ile	Asn	Tyr	Lys	Gln	Leu	Gln	Leu	Gln	Glu	
	290					295					300					
agg	acg	aac	att	cgg	aaa	tgt	cag	gag	ctc	ctg	gag	cag	ctg	aat	gga	960
Arg	Thr	Asn	Ile	Arg	Lys	Cys	Gln	Glu	Leu	Leu	Glu	Gln	Leu	Asn	Gly 320	
305					310					315						
aag	atc	aac	ctc	acc	tac	agg	gcg	gac	ttc	aag	atc	cct	atg	gag	atg	1008
Lys	Ile	Asn	Leu	Thr	Tyr	Arg	Ala	Asp	Phe	Lys	Ile	Pro	Met	Glu	Met	
				325					330					335		
acg	gag	aag	atg	cag	aag	agt	tac	act	gcc	ttt	gcc	atc	caa	gag	atg	1056
Thr	Glu	Lys	Met	Gln	Lys	Ser	Tyr	Thr	Ala	Phe	Ala	Ile	Gln	Glu	Met	
			340					345					350			
ctc	cag	aat	gtc	ttt	ctt	gtc	ttc	aga	aac	aat	ttc	tcc	agc	act	ggg	1104
Leu	Gln	Asn	Val	Phe	Leu	Val	Phe	Arg	Asn	Asn	Phe	Ser	Ser	Thr	Gly	
		355					360					365				
tgg	aat	gag	act	att	gtt	gta	cgt	ctc	ctg	gat	gaa	ctc	cac	cag	cag	1152
Trp	Asn	Glu	Thr	Ile	Val	Val	Arg	Leu	Leu	Asp	Glu	Leu	His	Gln	Gln	
	370					375					380					
aca	gtg	ttt	ctg	aag	aca	gta	cta	gag	gaa	aag	caa	gag	gaa	aga	ttg	1200
Thr	Val	Phe	Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Gln	Glu	Glu	Arg	Leu	
	385				390					395					400	
acg	tgg	gag	atg	tcc	tca	act	gct	ctc	cac	ttg	aag	agc	tat	tac	tgg	1248
Thr	Trp	Glu	Met	Ser	Ser	Thr	Ala	Leu	His	Leu	Lys	Ser	Tyr	Tyr	Trp	
				405					410					415		
agg	gtg	caa	agg	tac	ctt	aaa	ctc	atg	aag	tac	aac	agc	tac	gcc	tgg	1296
Arg	Val	Gln	Arg	Tyr	Leu	Lys	Leu	Met	Lys	Tyr	Asn	Ser	Tyr	Ala	Trp	

420	425	430	
atg gtg gtc cga gca gag atc ttc agg aac ttt ctc atc att cga aga			1344
Met Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg			
435	440	445	

ctt acc aga aac ttc caa aac tga tctagacc	1376
Leu Thr Arg Asn Phe Gln Asn	
450	455

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Met Pro Pro Ser Gly Leu Arg Leu Leu Pro Leu Leu Leu Pro Leu Leu
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Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala
35 40 45

Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser
50 55 60

Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu
65 70 75 80

Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu
85 90 95

Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu
100 105 110

Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr
115 120 125

His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val
130 135 140

Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Arg
145 150 155 160

Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser
165 170 175

Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp
180 185 190

Ser	Pro	Glu	Trp	Leu	Ser	Phe	Asp	Val	Thr	Gly	Val	Val	Arg	Gln	Trp	195	200	205
Leu	Ser	Arg	Gly	Gly	Glu	Ile	Glu	Gly	Phe	Arg	Leu	Ser	Ala	His	Cys	210	215	220
Ser	Cys	Asp	Ser	Arg	Asp	Asn	Thr	Leu	Gln	Val	Asp	Ile	Asn	Gly	Phe	225	230	235
Thr	Thr	Gly	Arg	Arg	Gly	Asp	Leu	Ala	Thr	Ile	His	Gly	Met	Asn	Arg	245	250	255
Pro	Phe	Leu	Leu	Leu	Met	Ala	Thr	Pro	Leu	Glu	Arg	Ala	Gln	His	Leu	260	265	270
Gln	Ser	Glu	Phe	Gly	Gly	Gly	Gly	Ser	Pro	Leu	Gly	Leu	Trp	Ala	Gly	275	280	285
Gly	Gly	Ser	Ala	Ala	Ala	Ile	Asn	Tyr	Lys	Gln	Leu	Gln	Leu	Gln	Glu	290	295	300
Arg	Thr	Asn	Ile	Arg	Lys	Cys	Gln	Glu	Leu	Leu	Glu	Gln	Leu	Asn	Gly	305	310	315
Lys	Ile	Asn	Leu	Thr	Tyr	Arg	Ala	Asp	Phe	Lys	Ile	Pro	Met	Glu	Met	325	330	335
Thr	Glu	Lys	Met	Gln	Lys	Ser	Tyr	Thr	Ala	Phe	Ala	Ile	Gln	Glu	Met	340	345	350
Leu	Gln	Asn	Val	Phe	Leu	Val	Phe	Arg	Asn	Asn	Phe	Ser	Ser	Thr	Gly	355	360	365
Trp	Asn	Glu	Thr	Ile	Val	Val	Arg	Leu	Leu	Asp	Glu	Leu	His	Gln	Gln	370	375	380
Thr	Val	Phe	Leu	Lys	Thr	Val	Leu	Glu	Glu	Lys	Gln	Glu	Glu	Arg	Leu	385	390	395
Thr	Trp	Glu	Met	Ser	Ser	Thr	Ala	Leu	His	Leu	Lys	Ser	Tyr	Tyr	Trp	405	410	415
Arg	Val	Gln	Arg	Tyr	Leu	Lys	Leu	Met	Lys	Tyr	Asn	Ser	Tyr	Ala	Trp	420	425	430
Met	Val	Val	Arg	Ala	Glu	Ile	Phe	Arg	Asn	Phe	Leu	Ile	Ile	Arg	Arg	435	440	445
Leu	Thr	Arg	Asn	Phe	Gln	Asn										450	455	

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1 5 10 15		
acc aca gcc ctc tcc atc aac tat aag cag ctc cag ctg caa gaa agg		96
Thr Thr Ala Leu Ser Ile Asn Tyr Lys Gln Leu Gln Leu Gln Glu Arg		
20 25 30		
acg aac att cgg aaa tgt cag gag ctc ctg gag cag ctg aat gga aag		144
Thr Asn Ile Arg Lys Cys Gln Glu Leu Leu Glu Gln Leu Asn Gly Lys		
35 40 45		
atc aac ctc acc tac agg gcg gac ttc aag atc cct atg gag atg acg		192
Ile Asn Leu Thr Tyr Arg Ala Asp Phe Lys Ile Pro Met Glu Met Thr		
50 55 60		
gag aag atg cag aag agt tac act gcc ttt gcc atc caa gag atg ctc		240
Glu Lys Met Gln Lys Ser Tyr Thr Ala Phe Ala Ile Gln Glu Met Leu		
65 70 75 80		
cag aat gtc ttt ctt gtc ttc aga aac aat ttc tcc agc act ggg tgg		288
Gln Asn Val Phe Leu Val Phe Arg Asn Asn Phe Ser Ser Thr Gly Trp		
85 90 95		
aat gag act att gtt gta cgt ctc ctg gat gaa ctc cac cag cag aca		336
Asn Glu Thr Ile Val Val Arg Leu Leu Asp Glu Leu His Gln Gln Thr		
100 105 110		
gtg ttt ctg aag aca gta cta gag gaa aag caa gag gaa aga ttg acg		384
Val Phe Leu Lys Thr Val Leu Glu Glu Lys Gln Glu Glu Arg Leu Thr		
115 120 125		
tgg gag atg tcc tca act gct ctc cac ttg aag agc tat tac tgg agg		432
Trp Glu Met Ser Ser Thr Ala Leu His Leu Lys Ser Tyr Tyr Trp Arg		
130 135 140		
gtg caa agg tac ctt aaa ctc atg aag tac aac agc tac gcc tgg atg		480
Val Gln Arg Tyr Leu Lys Leu Met Lys Tyr Asn Ser Tyr Ala Trp Met		
145 150 155 160		
gtg gtc cga gca gag atc ttc agg aac ttt ctc atc att cga aga ctt		528
Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg Leu		
165 170 175		
acc aga aac ttc caa aac gaa ttc ggg gga ggc gga tcc ccg ctc ggg		576
Thr Arg Asn Phe Gln Asn Glu Phe Gly Gly Gly Gly Ser Pro Leu Gly		

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20 25 30

Thr Asn Ile Arg Lys Cys Gln Glu Leu Leu Glu Gln Leu Asn Gly Lys
35 40 45

Ile Asn Leu Thr Tyr Arg Ala Asp Phe Lys Ile Pro Met Glu Met Thr
50 55 60

Glu Lys Met Gln Lys Ser Tyr Thr Ala Phe Ala Ile Gln Glu Met Leu
65 70 75 80

Gln Asn Val Phe Leu Val Phe Arg Asn Asn Phe Ser Ser Thr Gly Trp
85 90 95

Asn Glu Thr Ile Val Val Arg Leu Leu Asp Glu Leu His Gln Gln Thr
100 105 110

Val Phe Leu Lys Thr Val Leu Glu Glu Lys Gln Glu Glu Arg Leu Thr
115 120 125

Trp Glu Met Ser Ser Thr Ala Leu His Leu Lys Ser Tyr Tyr Trp Arg
130 135 140

Val Gln Arg Tyr Leu Lys Leu Met Lys Tyr Asn Ser Tyr Ala Trp Met
145 150 155 160

Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg Leu
165 170 175

Thr Arg Asn Phe Gln Asn Glu Phe Gly Gly Gly Gly Ser Pro Leu Gly
180 185 190

Leu Trp Ala Gly Gly Gly Ser Ala Ala Ala Leu Ser Thr Cys Lys Thr
195 200 205

Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala Ile Arg Gly
210 215 220

Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser Gln Gly Glu

225		230		235		240
Val Pro Pro Gly	Pro Leu Pro Glu Ala	Val Leu Ala Leu Tyr Asn Ser				
	245	250				255
Thr Arg Asp Arg	Val Ala Gly Glu Ser	Ala Glu Pro Glu Pro Glu Pro				
	260	265			270	
Glu Ala Asp Tyr Tyr	Ala Lys Glu Val Thr Arg Val	Leu Met Val Glu				
	275	280			285	
Thr His Asn Glu Ile Tyr	Asp Lys Phe Lys Gln Ser Thr His Ser Ile					
	290	295		300		
Tyr Met Phe Phe Asn Thr	Ser Glu Leu Arg Glu Ala Val Pro Glu Pro					
	305	310		315		320
Val Leu Leu Ser Arg	Ala Glu Leu Arg Leu Leu Arg Arg Leu Lys Leu					
	325	330				335
Lys Val Glu Gln His Val	Glu Leu Tyr Gln Lys Tyr Ser Asn Asn Ser					
	340	345			350	
Trp Arg Tyr Leu Ser Asn Arg	Leu Leu Ala Pro Ser Asp Ser Pro Glu					
	355	360			365	
Trp Leu Ser Phe Asp Val Thr	Gly Val Val Arg Gln Trp Leu Ser Arg					
	370	375		380		
Gly Gly Glu Ile Glu Gly	Phe Arg Leu Ser Ala His Cys Ser Cys Asp					
	385	390		395		400
Ser Arg Asp Asn Thr Leu Gln Val Asp	Ile Asn Gly Phe Thr Thr Gly					
	405	410			415	
Arg Arg Gly Asp Leu Ala Thr Ile His	Gly Met Asn Arg Pro Phe Leu					
	420	425		430		
Leu Leu Met Ala Thr Pro Leu Glu Arg	Ala Gln His Leu Gln Ser					
	435	440		445		
<210>	23					
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<212>	PRT					
<213>	Homo sapiens					
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1	5	10		15		

Trp	Leu	Leu	Val	Leu	Thr	Pro	Gly	Pro	Pro	Ala	Ala	Gly	Leu	Ser	Thr	20	25	30
Cys	Lys	Thr	Ile	Asp	Met	Glu	Leu	Val	Lys	Arg	Lys	Arg	Ile	Glu	Ala	35	40	45
Ile	Arg	Gly	Gln	Ile	Leu	Ser	Lys	Leu	Arg	Leu	Ala	Ser	Pro	Pro	Ser	50	55	60
Gln	Gly	Glu	Val	Pro	Pro	Gly	Pro	Leu	Pro	Glu	Ala	Val	Leu	Ala	Leu	65	70	75
Tyr	Asn	Ser	Thr	Arg	Asp	Arg	Val	Ala	Gly	Glu	Ser	Ala	Glu	Pro	Glu	85	90	95
Pro	Glu	Pro	Glu	Ala	Asp	Tyr	Tyr	Ala	Lys	Glu	Val	Thr	Arg	Val	Leu	100	105	110
Met	Val	Glu	Thr	His	His	Glu	Ile	Tyr	Asp	Lys	Phe	Lys	Gln	Ser	Thr	115	120	125
His	Ser	Thr	Tyr	Met	Phe	Phe	Asn	Ile	Ser	Glu	Leu	Arg	Glu	Ala	Val	130	135	140
Pro	Glu	Pro	Val	Leu	Leu	Ser	Arg	Ala	Glu	Leu	Arg	Leu	Leu	Arg	Leu	145	150	155
Lys	Leu	Lys	Val	Glu	Gln	His	Val	Glu	Leu	Tyr	Gln	Lys	Tyr	Ser	Asn	165	170	175
Asn	Ser	Trp	Arg	Tyr	Leu	Ser	Asn	Arg	Leu	Leu	Ala	Pro	Ser	Asp	Ser	180	185	190
Pro	Glu	Trp	Leu	Ser	Phe	Asp	Val	Thr	Gly	Val	Val	Arg	Gln	Trp	Leu	195	200	205
Ser	Arg	Gly	Gly	Glu	Ile	Glu	Gly	Phe	Arg	Leu	Ser	Ala	His	Cys	Ser	210	215	220
Cys	Asp	Ser	Arg	Asp	Asn	Thr	Leu	Gln	Val	Asp	Ile	Asn	Gly	Phe	Thr	225	230	235
Thr	Gly	Arg	Arg	Gly	Asp	Leu	Ala	Thr	Ile	His	Gly	Met	Asn	Arg	Pro	245	250	255
Phe	Leu	Leu	Leu	Met	Ala	Thr	Pro	Leu	Glu	Arg	Ala	Gln	His	Leu	Gln	260	265	270
Ser	Ser	Arg	His	Arg	Arg	Ala	Leu	Asp	Thr	Asn	Tyr	Cys	Phe	Ser	Ser	275	280	285
Thr	Glu	Lys	Asn	Cys	Cys	Val	Arg	Gln	Leu	Tyr	Ile	Asp	Phe	Arg	Lys	290	295	300
Asp	Leu	Gly	Trp	Lys	Trp	Ile	His	Glu	Pro	Lys	Gly	Tyr	His	Ala	Asn	305	310	315
Phe	Cys	Leu	Gly	Pro	Cys	Pro	Tyr	Ile	Trp	Ser	Leu	Asp	Thr	Gln	Tyr	325	330	335
Ser	Lys	Val	Leu	Ala	Leu	Tyr	Asn	Gln	His	Asn	Pro	Gly	Ala	Ser	Ala	340	345	350
Ala	Pro	Cys	Cys	Val	Pro	Gln	Ala	Leu	Glu	Pro	Leu	Pro	Ile	Val	Tyr	355	360	365
Tyr	Val	Gly	Arg	Lys	Pro	Lys	Val	Glu	Gln	Leu	Ser	Asn	Met	Ile	Val	370	375	380

Arg Ser Cys Lys Cys Ser
385 390

<210> 24

<211> 414

<212> PRT

<213> Homo sapiens

<400> 24

Met	His	Tyr	Cys	Val	Leu	Ser	Ala	Phe	Leu	Ile	Leu	His	Leu	Val	Thr
1				5					10					15	
Val	Ala	Leu	Ser	Leu	Ser	Thr	Cys	Ser	Thr	Leu	Asp	Met	Gln	Gln	Phe
			20					25					30		
Met	Arg	Lys	Arg	Ile	Glu	Ala	Ile	Arg	Gly	Gln	Ile	Leu	Ser	Lys	Leu
		35					40					45			
Lys	Leu	Thr	Ser	Pro	Pro	Glu	Asp	Tyr	Pro	Glu	Pro	Glu	Glu	Val	Pro
	50					55					60				
Pro	Glu	Val	Ile	Ser	Ile	Tyr	Asn	Ser	Thr	Arg	Asp	Leu	Leu	Gln	Glu
65					70					75					80
Lys	Ala	Ser	Arg	Arg	Ala	Ala	Ala	Cys	Glu	Arg	Glu	Arg	Ser	Asp	Glu
				85					90					95	
Glu	Tyr	Tyr	Ala	Lys	Glu	Val	Tyr	Lys	Ile	Asp	Met	Pro	Pro	Phe	Phe
			100					105					110		
Pro	Ser	Glu	Asn	Ala	Ile	Pro	Pro	Thr	Phe	Tyr	Arg	Pro	Tyr	Phe	Arg
		115					120					125			
Ile	Val	Arg	Phe	Asp	Val	Ser	Ala	Met	Glu	Lys	Asn	Ala	Ser	Asn	Leu
	130					135					140				
Val	Lys	Ala	Glu	Phe	Arg	Val	Phe	Arg	Leu	Gln	Asn	Pro	Lys	Ala	Arg
145					150					155					160
Val	Pro	Glu	Gln	Arg	Ile	Glu	Leu	Tyr	Gln	Ile	Leu	Lys	Ser	Lys	Asp
				165					170					175	
Leu	Ile	Ser	Pro	Thr	Gln	Arg	Tyr	Ile	Asp	Ser	Lys	Val	Val	Lys	Thr
			180					185					190		
Arg	Ala	Glu	Gly	Glu	Trp	Leu	Ser	Phe	Asp	Val	Thr	Asp	Ala	Val	His
		195					200					205			
Glu	Trp	Leu	His	His	Lys	Asp	Arg	Asn	Leu	Gly	Phe	Lys	Ile	Ser	Leu
	210					215					220				
His	Cys	Pro	Cys	Cys	Thr	Phe	Val	Pro	Ser	Asn	Asn	Tyr	Ile	Ile	Pro
225					230					235					240
Asn	Lys	Ser	Glu	Glu	Leu	Glu	Ala	Arg	Phe	Ala	Gly	Ile	Asp	Gly	Ile
				245					250					255	
Ser	Thr	Tyr	Thr	Ser	Gly	Asp	Gln	Lys	Thr	Ile	Lys	Ser	Thr	Arg	Lys
			260					265					270		
Lys	Asn	Ser	Gly	Lys	Thr	Pro	His	Leu	Leu	Leu	Met	Leu	Leu	Pro	Ser
		275					280					285			

Tyr Arg Leu Glu Ser Gln Gln Thr Asn Arg Arg Lys Lys Arg Ala Leu
 290 295 300
 Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg
 305 310 315 320
 Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His
 325 330 335
 Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr
 340 345 350
 Leu Trp Ser Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn
 355 360 365
 Thr Glu Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp
 370 375 380
 Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Ile Pro Lys Ile
 385 390 395 400
 Glu Gln Leu Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
 405 410

<210> 25

<211> 412

<212> PRT

<213> Homo sapiens

<400> 25

Met Lys Met His Leu Gln Arg Ala Leu Val Val Leu Ala Leu Leu His
 1 5 10 15
 Phe Ala Thr Val Ser Leu Ser Leu Ser Thr Cys Thr Thr Leu Asp Phe
 20 25 30
 Gly His Ile Lys Lys Lys Arg Val Glu Ala Ile Arg Gly Gln Ile Leu
 35 40 45
 Ser Lys Leu Arg Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His
 50 55 60
 Val Pro Tyr Gln Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu
 65 70 75 80
 Glu Glu His Gly Glu Arg Lys Glu Glu Gly Cys Thr Gln Glu Asn Thr
 85 90 95
 Glu Ser Glu Tyr Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln
 100 105 110
 Gly Leu Ala Glu His Asn Glu Leu Ala Val Cys Pro Lys Gly Ile Thr
 115 120 125
 Ser Lys Val Phe Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr
 130 135 140
 Asn Leu Phe Arg Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser
 145 150 155 160
 Ser Lys Arg Asn Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro
 165 170 175

Asp Glu His Ile Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro
180 185 190
Thr Arg Gly Thr Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val
195 200 205
Arg Glu Trp Leu Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser
210 215 220
Ile His Cys Pro Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu
225 230 235 240
Asn Ile His Glu Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu
245 250 255
Asp Asp His Gly Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp
260 265 270
Asn Asn Asn Pro His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu
275 280 285
Asp Asn Pro Gly Gln Gly Gly Gln Arg Lys Lys Arg Ala Leu Asp Ile
290 295 300
Asn Tyr Cys Phe Arg Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu
305 310 315 320
Tyr Ile Asp Phe Arg Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro
325 330 335
Lys Gly Tyr Tyr Ala Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg
340 345 350
Ser Ala Asp Thr Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu
355 360 365
Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu
370 375 380
Pro Leu Thr Ile Leu Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln
385 390 395 400
Leu Ser Asn Met Val Val Lys Ser Cys Lys Cys Ser
405 410

<210> 26

<211> 304

<212> PRT

<213> Gallus domesticus

<400> 26

Met Asp Pro Met Ser Ile Gly Pro Lys Ser Cys Gly Gly Ser Pro Trp
1 5 10 15
Arg Pro Pro Gly Thr Ala Pro Trp Ser Ile Gly Ser Arg Arg Ala Thr
20 25 30
Ala Ser Ser Ser Cys Ser Thr Ser Arg Val Arg Ala Glu Val Gly
35 40 45
Gly Arg Ala Leu Leu His Arg Ala Glu Leu Arg Met Leu Arg Gln Lys
50 55 60

Ala	Ala	Ala	Asp	Ser	Ala	Gly	Thr	Glu	Gln	Arg	Leu	Glu	Leu	Tyr	Gln
65					70					75					80
Gly	Tyr	Gly	Asn	Ala	Ser	Trp	Arg	Tyr	Leu	His	Gly	Arg	Ser	Val	Arg
				85					90					95	
Ala	Thr	Ala	Asp	Asp	Glu	Trp	Leu	Ser	Phe	Asp	Val	Thr	Asp	Ala	Val
			100					105					110		
His	Gln	Trp	Leu	Ser	Gly	Ser	Glu	Leu	Leu	Gly	Val	Phe	Lys	Leu	Ser
		115					120					125			
Val	His	Cys	Pro	Cys	Glu	Met	Gly	Pro	Gly	His	Ala	Asp	Glu	Met	Arg
	130					135					140				
Ile	Ser	Ile	Glu	Gly	Phe	Glu	Gln	Gln	Arg	Gly	Asp	Met	Gln	Ser	Ile
145					150					155					160
Ala	Lys	Lys	His	Arg	Arg	Val	Pro	Tyr	Val	Leu	Ala	Met	Ala	Leu	Pro
				165					170					175	
Ala	Glu	Arg	Ala	Asn	Glu	Leu	His	Ser	Ala	Arg	Arg	Arg	Arg	Asp	Leu
			180					185					190		
Asp	Thr	Asp	Tyr	Cys	Phe	Gly	Pro	Gly	Thr	Asp	Glu	Lys	Asn	Cys	Cys
		195					200					205			
Val	Arg	Pro	Leu	Tyr	Ile	Asp	Phe	Arg	Lys	Asp	Leu	Gln	Trp	Lys	Trp
	210					215					220				
Ile	His	Glu	Pro	Lys	Gly	Tyr	Met	Ala	Asn	Phe	Cys	Met	Gly	Pro	Cys
225					230					235					240
Pro	Tyr	Ile	Trp	Ser	Ala	Asp	Thr	Gln	Tyr	Ile	Lys	Val	Leu	Ala	Leu
				245					250					255	
Tyr	Asn	Gln	Asn	Asn	Pro	Gly	Ala	Ser	Ala	Ala	Pro	Cys	Cys	Val	Pro
			260					265					270		
Gln	Ile	Leu	Asp	Pro	Leu	Pro	Ile	Ile	Tyr	Tyr	Val	Gly	Arg	Asn	Val
		275					280					285			
Arg	Val	Glu	Gln	Leu	Ser	Asn	Met	Val	Val	Arg	Ala	Cys	Lys	Cys	Ser
	290					295					300				

<210> 27

<211> 383

<212> PRT

<213> Rana sp.

<400> 27

Met	Glu	Val	Leu	Trp	Met	Leu	Leu	Val	Leu	Leu	Val	Leu	His	Leu	Ser
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Ser	Leu	Ala	Met	Ser	Leu	Ser	Thr	Cys	Lys	Ala	Val	Asp	Met	Glu	Glu
			20					25					30		
Val	Arg	Lys	Arg	Arg	Ile	Glu	Ala	Ile	Arg	Gly	Gln	Ile	Leu	Ser	Lys
		35					40					45			
Leu	Lys	Leu	Asp	Lys	Ile	Pro	Asp	Val	Asp	Ser	Glu	Lys	Met	Thr	Val
	50					55					60				

Pro Ser Glu Ala Ile Phe Leu Tyr Asn Ser Thr Leu Glu Val Ile Arg
65 70 75 80
Glu Lys Ala Thr Arg Glu Glu Glu Glu His Val Gly His Asp Gln Asn
85 90 95
Ile Gln Asp Tyr Tyr Ala Lys Gln Val Tyr Arg Phe Glu Ser Ile Thr
100 105 110
Glu Leu Glu Asp His Glu Phe Lys Phe Lys Phe Asn Ala Ser Asn Val
115 120 125
Arg Glu Asn Val Gly Met Asn Ser Leu Leu His His Ala Glu Leu Arg
130 135 140
Met Tyr Lys Lys Gln Thr Asp Lys Asn Met Asp Gln Arg Met Glu Leu
145 150 155 160
Phe Trp Lys Tyr Gln Glu Asn Gly Thr Thr His Ser Arg Tyr Leu Glu
165 170 175
Ser Lys Tyr Ile Thr Pro Val Thr Asp Asp Glu Trp Met Ser Phe Asp
180 185 190
Val Thr Lys Thr Val Asn Glu Trp Leu Lys Arg Ala Glu Glu Asn Glu
195 200 205
Gln Phe Gly Leu Gln Pro Ala Cys Lys Cys Pro Thr Pro Gln Ala Lys
210 215 220
Asp Ile Asp Ile Glu Gly Phe Pro Ala Leu Arg Gly Asp Leu Ala Ser
225 230 235 240
Leu Ser Ser Lys Glu Asn Thr Lys Pro Tyr Leu Met Ile Thr Ser His
245 250 255
Pro Ala Glu Arg Ile Asp Thr Val Thr Ser Ser Arg Lys Lys Arg Gly
260 265 270
Val Gly Gln Glu Tyr Cys Phe Gly Asn Asn Gly Pro Asn Cys Cys Val
275 280 285
Lys Pro Leu Tyr Ile Asn Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile
290 295 300
His Glu Pro Lys Gly Tyr Glu Ala Asn Tyr Cys Leu Gly Asn Cys Pro
305 310 315 320
Tyr Ile Trp Ser Met Asp Thr Gln Tyr Ser Lys Val Leu Ser Leu Tyr
325 330 335
Asn Gln Asn Asn Pro Gly Ala Ser Ile Ser Pro Cys Cys Val Pro Asp
340 345 350
Val Leu Glu Pro Leu Pro Ile Ile Tyr Tyr Val Gly Arg Ile Ala Lys
355 360 365
Val Glu Gln Leu Ser Asn Met Val Val Arg Ser Cys Asn Cys Ser
370 375 380

<210> 28

<211> 8

<212> PRT

<213> Homo sapiens

<400> 28

Ala Pro Gln Gly Ile Ala Gly Gln
1 5

<210> 29

<211> 8

<212> PRT

<213> Homo sapiens

<400> 29

Gly Pro Gln Gly Leu Leu Gly Ala
1 5

<210> 30

<211> 8

<212> PRT

<213> Homo sapiens

<400> 30

Gly Pro Gln Gly Leu Ala Gly Gln
1 5

<210> 31

<211> 8

<212> PRT

<213> Homo sapiens

<400> 31

Gly Pro Leu Gly Ile Ala Gly Ile
1 5

<210> 32

<211> 8

<212> PRT

<213> Homo sapiens

<400> 32

Gly Pro Glu Gly Leu Arg Val Gly
1 5

<210> 33

<211> 8

<212> PRT

<213> Rattus sp.

<400> 33

Ala Ala Tyr His Leu Val Ser Gln
1 5

<210> 34

<211> 8

<212> PRT

<213> Rattus sp.

<400> 34

Met Asp Ala Phe Leu Glu Ser Ser
1 5

<210> 35

<211> 8

<212> PRT

<213> Rattus sp.

<400> 35

Glu Pro Gln Ala Leu Ala Met Ser
1 5

<210> 36

<211> 8

<212> PRT

<213> Rattus sp.

<400> 36

Gln Ala Leu Ala Met Ser Ala Ile
1 5

<210> 37

<211> 8

<212> PRT

<213> Gallus domesticus

<400> 37

Pro Ser Tyr Phe Leu Asn Ala Gly

1 5

<210> 38

<211> 8

<212> PRT

<213> Homo sapiens

<400> 38

Tyr Glu Ala Gly Leu Gly Val Val
1 5

<210> 39

<211> 8

<212> PRT

<213> Homo sapiens

<400> 39

Ala Gly Leu Gly Val Val Glu Arg
1 5

<210> 40

<211> 8

<212> PRT

<213> Homo sapiens

<400> 40

Ala Gly Leu Gly Ile Ser Ser Thr
1 5

<210> 41

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 41

Gly Ala Met Phe Leu Glu Ala Ile
1 5

<210> 42

<211> 8

<212> PRT

<213> Homo sapiens

<400> 42

Ile Pro Glu Asn Phe Phe Gly Val
1 5

<210> 43

<211> 8

<212> PRT

<213> Homo sapiens

<400> 43

Thr Glu Gly Glu Ala Arg Gly Ser
1 5

<210> 44

<211> 8

<212> PRT

<213> Homo sapiens

<400> 44

Arg Ala Ile His Ile Gln Ala Glu
1 5

<210> 45

<211> 8

<212> PRT

<213> Homo sapiens

<400> 45

Leu Arg Ala Tyr Leu Leu Pro Ala
1 5

<210> 46

<211> 8

<212> PRT

<213> Cavia porcellus

<220>

<221> SITE

<222> (3)..(3)

<223> Xaa=Hyp

<400> 46

Gly Ala Xaa Gly Leu Glx Gly His
1 5

<210> 47

<211> 8

<212> PRT

<213> Rattus sp.

<400> 47

Gly Pro Gln Gly Val Arg Gly Glu
1 5

<210> 48

<211> 8

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<213> Rattus sp.

<400> 48

Gly Pro Ala Gly Val Gln Gly Pro
1 5

<210> 49

<211> 8

<212> PRT

<213> Rattus sp.

<220>

<221> SITE

<222> (6)..(6)

<223> Xaa=Hyp

<400> 49

Gly Pro Ser Gly Leu Xaa Gly Pro
1 5

<210> 50

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<212> PRT

<213> Rattus sp.

<400> 50

Gly Pro Ala Gly Glu Arg Gly Ser
1 5

<210> 51

<211> 8

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<213> Rattus sp.

<400> 51

Gly Ala Lys Gly Leu Thr Gly Ser
1 5

<210> 52

<211> 8

<212> PRT

<213> Rattus sp.

<400> 52

Gly Pro Ala Gly Gln Asp Gly Pro
1 5

<210> 53

<211> 8

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<213> Rattus sp.

<400> 53

Gly Pro Ala Gly Phe Ala Gly Pro
1 5

<210> 54

<211> 8

<212> PRT

<213> Rattus sp.

<400> 54

Gly Pro Ile Gly Asn Val Gly Ala

1 5
<210> 55
<211> 8
<212> PRT
<213> Rattus sp.

<220>
<221> SITE
<222> (3)..(3)
<223> Xaa=Hyl

<400> 55
Gly Pro Xaa Gly Ser Arg Gly Ala
1 5

<210> 56
<211> 8
<212> PRT
<213> Bos taurus

<400> 56
Gly Pro Gln Gly Ile Ala Gly Gln
1 5

<210> 57
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<213> Bos taurus

<400> 57
Gly Pro Gln Gly Leu Leu Gly Ala
1 5

<210> 58
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<212> PRT
<213> Homo sapiens

<400> 58

Ile Pro Glu Asn Phe Phe Gly Val
1 5

<210> 59

<211> 8

<212> PRT

<213> Homo sapiens

<400> 59

Pro Pro Gly Ala Tyr His Gly Ala
1 5

<210> 60

<211> 8

<212> PRT

<213> Homo sapiens

<400> 60

Arg Ala Ile His Ile Gln Ala Glu
1 5

<210> 61

<211> 8

<212> PRT

<213> Homo sapiens

<400> 61

Gly Pro His Leu Leu Val Glu Ala
1 5

<210> 62

<211> 8

<212> PRT

<213> Homo sapiens

<400> 62

Leu Arg Ala Tyr Leu Leu Pro Ala
1 5

<210> 63

<211> 8

<212> PRT

<213> Homo sapiens

<400> 63

Gly Pro Glu Gly Leu Arg Val Gly
1 5

<210> 64

<211> 8

<212> PRT

<213> Homo sapiens

<400> 64

Arg Val Gly Phe Tyr Glu Ser Asp
1 5

<210> 65

<211> 8

<212> PRT

<213> Homo sapiens

<400> 65

Leu Leu Ser Ala Leu Val Glu Thr
1 5

<210> 66

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 66

Glu Ala Ile Pro Met Ser Ile Pro
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<210> 67

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 67

Ile Ala Gly Arg Ser Leu Asn Pro
1 5

<210> 68

<211> 8

<212> PRT

<213> Gallus domesticus

<400> 68

Leu Asn Ala Gly Phe Thr Ala Ser
1 5

<210> 69

<211> 8

<212> PRT

<213> Homo sapiens

<400> 69

Ile Pro Glu Asn Phe Phe Gly Val
1 5

<210> 70

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 70

Lys Pro Gln Gln Phe Phe Gly Leu
1 5

<210> 71

<211> 8

<212> PRT

<213> Homo sapiens

<400> 71

Asp Val Ala Gln Phe Val Leu Thr

1 5
<210> 72
<211> 8
<212> PRT
<213> Homo sapiens

<400> 72
Asp Thr Leu Glu Val Met Arg Lys
1 5

<210> 73
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<400> 73
Asp Val Gly His Phe Arg Thr Phe
1 5

<210> 74
<211> 8
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<400> 74
Asp Ser Gly Gly Phe Met Leu Thr
1 5

<210> 75
<211> 8
<212> PRT
<213> Homo sapiens

<400> 75
Arg Val Ala Glu Met Arg Gly Glu
1 5

<210> 76
<211> 8
<212> PRT
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<400> 76

Asp Leu Gly Arg Phe Gln Thr Phe
1 5

<210> 77

<211> 8

<212> PRT

<213> Homo sapiens

<400> 77

Pro Phe Ser Pro Leu Val Ala Thr
1 5

<210> 78

<211> 8

<212> PRT

<213> Homo sapiens

<400> 78

Leu Arg Ala Tyr Leu Leu Pro Ala
1 5

<210> 79

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 79

Ala Pro Gly Asn Ala Ser Glu Ser
1 5

<210> 80

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 80

Phe Ser Ser Glu Ser Lys Arg Glu
1 5

<210> 81

<211> 8

<212> PRT

<213> Bos taurus

<400> 81

Ala Gly Gly Ala Gln Met Gly Val
1 5

<210> 82

<211> 8

<212> PRT

<213> Bos taurus

<400> 82

Gln Met Gly Val Met Gln Gly Pro
1 5

<210> 83

<211> 8

<212> PRT

<213> Bos taurus

<400> 83

Met Ala Ala Ser Leu Lys Arg Pro
1 5

<210> 84

<211> 8

<212> PRT

<213> Bos taurus

<400> 84

Met Ala Ala Ser Ala Lys Arg Glu
1 5

<210> 85

<211> 8

<212> PRT

<213> Bos taurus

<400> 85

Met Ala Ala Ser Leu Arg Lys Pro
1 5

<210> 86

<211> 8

<212> PRT

<213> Bos taurus

<400> 86

Gln Ala Gln Ala Ile Leu Gln Gln
1 5

<210> 87

<211> 8

<212> PRT

<213> Homo sapiens

<400> 87

Arg Ala Ile His Ile Gln Ala Glu
1 5

<210> 88

<211> 8

<212> PRT

<213> Bos taurus

<400> 88

Leu Val Glu Ala Leu Tyr Leu Val
1 5

<210> 89

<211> 8

<212> PRT

<213> Bos taurus

<400> 89

Glu Ala Leu Tyr Leu Val Cys Gly

1 5
<210> 90
<211> 8
<212> PRT
<213> Homo sapiens

<400> 90
Ile Pro Glu Asn Phe Phe Gly Val
1 5

<210> 91
<211> 8
<212> PRT
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<400> 91
Gly Pro His Leu Leu Val Glu Ala
1 5

<210> 92
<211> 8
<212> PRT
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<400> 92
Pro Pro Glu Glu Leu Lys Phe Gln
1 5

<210> 93
<211> 8
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<213> Homo sapiens

<400> 93
Gly Pro Pro Gly Val Val Gly Pro
1 5

<210> 94
<211> 8
<212> PRT
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<400> 94

Gly Pro Pro Gly Leu Arg Gly Glu
1 5

<210> 95

<211> 8

<212> PRT

<213> Homo sapiens

<400> 95

Gly Pro Glu Gly Val Val Gly Pro
1 5

<210> 96

<211> 8

<212> PRT

<213> Homo sapiens

<400> 96

Ile Pro Glu Asn Phe Phe Gly Val
1 5

<210> 97

<211> 8

<212> PRT

<213> Homo sapiens

<400> 97

Pro Pro Gly Ala Tyr His Gly Ala
1 5

<210> 98

<211> 8

<212> PRT

<213> Homo sapiens

<400> 98

Arg Ala Ile His Ile Gln Ala Glu
1 5

<210> 99

<211> 8

<212> PRT

<213> Homo sapiens

<400> 99

Arg Ala Ile His Ile Gln Ala Glu
1 5

<210> 100

<211> 8

<212> PRT

<213> Homo sapiens

<400> 100

Gly Pro His Leu Leu Val Glu Ala
1 5